

## Assoc. Prof. AYŞE UZGÖREN BARAN

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: G-9260-2013

Yoksis Researcher ID: 168941

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya / Organik Kimya Anabilim Dalı, Turkey 2003 - 2007

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya / Organik Kimya Anabilim Dalı, Turkey 2000 - 2003

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya, Turkey 1995 - 2000

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Studies on the synthesis of strychnos alkaloids with the aspidospermatan skeleton, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2007

Postgraduate, Reactions of enamines with acetylene derivatives, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2003

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Natural Products, Chemistry of Heterocyclic Compounds, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2015 - Continues

Research Assistant PhD, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2007 - 2015

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2001 - 2008

## Courses

ORGANİK KİMYA, Undergraduate, 2016 - 2017

KAYNAK ARAŞTIRMA VE RAPOR YAZMA, Undergraduate, 2016 - 2017

## Advising Theses

Uzgören Baran A., Synthesis of new triazole compounds having flurbiprofen moiety as possible selective COX-2 inhibitors, Postgraduate, E.KESKİN(Student), 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Spectroscopic and molecular modeling methods to investigate the interaction between psychostimulant modafinil and calf thymus DNA using ethidium bromide as a fluorescence probe**  
Oguzcan E., KÖKSAL Z., TAŞKIN TOK T., UZGÖREN BARAN A., AKBAY N.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.270, 2022 (SCI-Expanded)
- II. **Novel carbazole based hydrazone type light-up chemosensors**  
UZGÖREN BARAN A., Keskin E., Cakmaz D., AYDINER B., ÖZER D., SEFEROĞLU N., SEFEROĞLU Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1250, 2022 (SCI-Expanded)
- III. **Facile synthesis of vanadium oxide supported on Fe<sub>2</sub>O<sub>3</sub>@SiO<sub>2</sub> composite: An effective catalyst for oxidative dehydrogenation reaction of tetrahydrocarbazole**  
ÖZER D., İÇTEN O., Uzgoren-Baran A., Oztas N. A.  
Ceramics International, vol.46, no.9, pp.13762-13767, 2020 (SCI-Expanded)
- IV. **A naproxen derived schiff-base for highly selective sensing of fluoride**  
Uzgoren-Baran A., Turk M., ÖZER D., YÜKSEL D., TUNOĞLU N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1203, 2020 (SCI-Expanded)
- V. **Multispectroscopic and Computational Investigation of ct-DNA Binding Properties with Hydroxybenzylidene Containing Tetrahydrocarbazole Derivative**  
Ozkan S., Taskin-Tok T., Uzgoren-Baran A., AKBAY N.  
JOURNAL OF FLUORESCENCE, vol.29, no.1, pp.101-110, 2019 (SCI-Expanded)
- VI. **Study of Binding Properties Between Two New Ibuprofen and Naproxen Based Acyl Hydrazone Derivatives and Trypsin**  
GÖKOĞLU E., YILMAZ E., GOKOĞLU E., Baran A. U.  
JOURNAL OF FLUORESCENCE, vol.26, no.1, pp.113-119, 2016 (SCI-Expanded)
- VII. **Novel thiazolo[3,2-b]-1,2,4-triazoles derived from naproxen with analgesic/anti-inflammatory properties: Synthesis, biological evaluation and molecular modeling studies**  
SARIGOL D., UZGOREN-BARAN A., TEL B. C., Somuncuoglu E. İ., KAZKAYASI İ., OZADALI-SARI K., UNSAL-TAN O., Okay G., Ertan M., Tozkoparan B.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.23, no.10, pp.2518-2528, 2015 (SCI-Expanded)
- VIII. **Synthesis and structural studies of acyl hydrazone derivatives having tetrahydrocarbazole moiety**  
Sarigol D., YÜKSEL D., Okay G., Uzgoren-Baran A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1086, pp.146-152, 2015 (SCI-Expanded)
- IX. **Functional organo-Mt/copolymer nanoarchitectures. Microwave-assisted rapid synthesis and characterisation of ODA-Mt/poly[NIPAm-co-(MA-alt-2,3-2H-DHP)] nanocomposites**  
Rzayev Z. M. O., Uzgoren-Baran A., Bunyatova U.  
APPLIED CLAY SCIENCE, vol.105, pp.1-13, 2015 (SCI-Expanded)
- X. **Synthesis and molecular modeling studies of naproxen-based acyl hydrazone derivatives**  
Tok T. T., OZASIK O., Sarigol D., Baran A. U.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.1, pp.64-83, 2015 (SCI-Expanded)
- XI. **McbR/YncC: Implications for the Mechanism of Ligand and DNA Binding by a Bacterial GntR**

### **Transcriptional Regulator Involved in Biofilm Formation**

Lord D. M., Baran A. U., SOO V. W. C., WOOD T. K., Peti W., Page R.  
BIOCHEMISTRY, vol.53, no.46, pp.7223-7231, 2014 (SCI-Expanded)

### **XII. BdcA, a Protein Important for Escherichia coli Biofilm Dispersal, Is a Short-Chain Dehydrogenase/Reductase that Binds Specifically to NADPH**

Lord D. M., Baran A. U., WOOD T. K., Peti W., Page R.  
PLOS ONE, vol.9, no.9, 2014 (SCI-Expanded)

### **XIII. Comparative study of microwave-assisted and conventional synthesis of ibuprofen-based acyl hydrazone derivatives**

Uzgoren Baran A.  
TURKISH JOURNAL OF CHEMISTRY, vol.37, no.6, pp.927-935, 2013 (SCI-Expanded)

### **XIV. Thiazolo[3,2-b]-1,2,4-triazole-5(6H)-one substituted with ibuprofen: Novel non-steroidal anti-inflammatory agents with favorable gastrointestinal tolerance**

Uzgoren-Baran A., TEL B. C., SARIGOL D., Ozturk E. I., KAZKAYASI İ., Okay G., Ertan M., Tozkoparan B.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.57, pp.398-406, 2012 (SCI-Expanded)

### **XV. Bioengineering Functional Copolymers. XV. Synthesis and Characterization of Poly(N-isopropyl acrylamide-co-3,4-dihydro-2H-pyran-alt-maleic anhydride)s and Their PEO Branched Derivatives**

Rzayev Z. M. O., Turk M., Uzgoren A.  
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.48, no.19, pp.4285-4295, 2010 (SCI-Expanded)

### **XVI. Synthesis of Various 2,8-Cyclooctadiene-1,2-dicarboxylates**

Uzgoren-Baran A., TUNOĞLU N., Okay G.  
ORGANIC PREPARATIONS AND PROCEDURES INTERNATIONAL, vol.42, no.2, pp.143-150, 2010 (SCI-Expanded)

### **XVII. Studies on the Synthesis of 4-Oxo-2,3,4,9-tetrahydrocarbazole Derivatives**

Uzgoren A., Uludag N., Okay G., Patir S.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.46, no.6, pp.1416-1419, 2009 (SCI-Expanded)

### **XVIII. Bioengineering functional copolymers: synthesis and characterization of poly(N-isopropyl acrylamide-co-3,4-2H-dihydropyran)s**

Uzgoren A., Rzaev Z. M. O., Okay G.  
JOURNAL OF POLYMER RESEARCH, vol.14, no.4, pp.329-338, 2007 (SCI-Expanded)

### **XIX. Diethyl 7-oxo-3-(pyrrolidin-1-yl)cycloocta-2,8-diene-1,2-dicarboxylate**

Hokelek T., Uzgoren A., Ergun Y., Tunoglu N., Okay G.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)

### **XX. Dimethyl 7-oxo-3-(pyrrolidin-1-yl)cyclo-octa-2,8-diene-1,2-dicarboxylate**

Hokelek T., UZGOREN A., ERGUN Y., TUNOGLU N., OKAY G.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.59, 2003 (SCI-Expanded)

## **Books & Book Chapters**

### **I. Bolum 4 Alkanlar ve Radikalik Yer Değiştirme Tepkimeleri**

UZGÖREN BARAN A.

in: Temel Organik Kimya, Yılmaz Yıldırım, Aliye Altuntaş, Ali Dişli, Editor, Bilim Yayınları, pp.106-145, 2020

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Tetrahidrokarbazol Yapısı İçeren Açıl Hidrazon Bileşiklerinin Sentezi ve NMR Çalışmaları**

Keskin E., YÜKSEL D., UZGÖREN BARAN A.

31. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019, pp.172

### **II. Tetrahidrokarbazol Açıl Hidrazon Bileşiklerinde Molekül İçi H-Bağının Kararlılığa Etkisi**

Yüksel D., Keskin E., Uzgören Baran A.

31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.175

- III. **Solution Combustion Synthesis of Magnetic Silica Supported Vanadium Oxide for Oxidative Dehydrogenation Reactions**  
ÖZER D., İÇTEN O., UZGÖREN BARAN A., ALTUNTAŞ ÖZTAŞ N.  
II. Ulusal Anorganik Kimya Kongresi-Uluslararası Katılımlı, Turkey, 19 - 22 June 2019
- IV. **A Naproxen Derived Schiff-Base for Highly Selective Sensing of Fluoride**  
TÜRK M., ÖZER D., YÜKSEL D., TUNOĞLU N., UZGÖREN BARAN A.  
7. Ulusal Anorganik Kimya Kongresi, Turkey, 19 - 22 June 2019
- V. **Synthesis and molecular modeling studies of flurbiprofen-based 1,2,4-triazole derivatives**  
YILMAZ E., TAŞKIN TOK T., UZGÖREN BARAN A.  
Uluslararası Katılımlı 4. Organik Kimya Kongresine (OrgChemTR-4), 4 - 07 October 2018
- VI. **In Silico Studies Of Flurbiprofen-Based 1,2,4-Triazole Derivatives As Dual Inhibitors Of COX-2/5-LOX Enzymes**  
TAŞKIN TOK T., YILMAZ E., UZGÖREN BARAN A.  
5th International Conference on Computation for Science and Technology (ICCST 2018), 23 - 26 September 2018
- VII. **The first application of NMR spectroscopy in differentiation of Turkish honeys**  
Özkök A., YÜKSEL D., UZGÖREN BARAN A., SORKUN K.  
45th APIMONDIAINTERNATIONAL APICULTURAL CONGRESS, İstanbul, Turkey, 29 September - 04 October 2017
- VIII. **A RAPID DIFFERENTIATION OF TURKISH HONEYS USING NMR SPECTROSCOPY**  
ÖZKÖK A., UZGÖREN BARAN A., SORKUN K.  
INTERNATIONAL HONEY COMMISSION CONGRESS, Turkey, 23 - 27 September 2017
- IX. **Investigation of binding characteristics of two hydrazone derivatives with nucleic acids by spectral methods**  
AKBAY N., özkan ş., UZGÖREN BARAN A.  
10. Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016
- X. **Protective Effects of New Selective COX 2 Inhibitors on a Rat Model of Severe Acute Pancreatitis**  
ERİKÇİ A., UÇAR B. İ., Salgın Gökşen U, GÖKHAN KELEKÇİ N., UZGÖREN BARAN A., TOZKOPARAN B., KÖSEMMEHMETOĞLU K., İSKİT A. B., YABANOĞLU ÇİFTÇİ S., UÇAR G.  
41.FEBS Congress, Kuşadası-Aydın, Turkey, 3 - 08 September 2016
- XI. **Protective effects of new selective COX-2 inhibitors on a rat model of severe acute pancreatitis**  
Erikci A., Ucar B. I., BAYSAL İ., Goksen U. S., Kelekci N. G., Baran A., Tozkoparan B., Kosemehmetoglu K., Iskit A. B., Ciftci S. Y., et al.  
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.246
- XII. **Novel 1 2 4 Triazole Based Bicyclic Derivatives Bearing Naproxen Moiety As Analgesic Anti Inflammatory Agents**  
UZGÖREN BARAN A., TEL B. C., SOMUNCUOĞLU E. İ., KAZKAYASI İ., OKAY G., TOZKOPARAN B.  
International Multidisciplinary Symposium on Drug Research and Development in Memory of Professor Ünsal Çalış, Eskişehir, Turkey, 15 - 17 October 2015
- XIII. **Synthesis and biological evaluation of tetrahydrocarbazole derivative compounds as human glutathione s transferase p1 1 inhibitors and docking studies**  
özcan m., CEYHAN D., UZGÖREN BARAN A., sarigöl d., CANPINAR H., BÜBER E., AKSOY Y.  
XVIII Congress of the Portuguese Biochemical Society, Coimbra, Portugal, 17 - 20 December 2014
- XIV. **Mikrodalga Sentez Yöntemi ile İbuprofen Yapısına Sahip Hidrazon Türevlerinin Sentezi**  
UZGÖREN BARAN A.  
2. Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014
- XV. **Naproxen Yapısına Sahip Hidrazon Türevlerinin Sentezi ve Moleküler Modelleme Çalışmaları**  
ÖZAŞIK Ö., SARIGÖL D., TAŞKIN TOK T., UZGÖREN BARAN A.  
2. Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014
- XVI. **Hydrazone derivative compounds as a substrate for human glutathione transferase P1 1 kinetics**

### **docking and cell culture analysis**

CEYHAN D., Özcan m., SARIGÖL D., UZGÖREN BARAN A., CANPINAR H., BÜBER E., AKSOY Y.  
2nd International BAU-Drug Design Symposium, İstanbul, Turkey, 17 - 19 April 2014

- XVII. **Microwave Assisted Rapid Synthesis and Characterization of Poly NIPAm co MA alt 2 3 2H DHP ODA MMT Nanocomposites**  
UZGÖREN BARAN A., RZAYEV Z.  
9th Nanoscience and Nanotechnology Conference, Erzurum, Turkey, 24 - 28 June 2013
- XVIII. **2 3 4 9 Tetrahidrokarbazol Bileşiklerinin Sentezi Üzerine Çalışmalar**  
UZGÖREN BARAN A., ULUDAĞ N., PATIR S., OKAY G.  
26. Uluslararası Katılımlı Ulusal Kimya Kongresi, Turkey, 1 - 06 October 2012
- XIX. **İbuprofen Yapısına Sahip Tiyazolo 3 2 b 1 2 4 Triazol Yapılarının Sentezi**  
Deniz S., Uzgören Baran A., Tel B. C., Öztürk E. İ., Kazkayası İ., Okay G., Ertan M., Tozkoparan B.  
26. Uluslararası Katılımlı Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012
- XX. **Novel Thiazolo 3 2 b 1 2 4 triazole 5 6H ones Substituted with Ibuprofen as Potent and SaferAntiinflammatory Analgesic Agents**  
ÖZTÜRK E. İ., KAZKAYASI İ., SARIGÖL D., UZGÖREN BARAN A., OKAY G., ERTAN M., TOZKOPARAN B.  
6th European Congress of Pharmacology, Spain, 17 - 20 July 2012
- XXI. **Synthesis and Dynamic Mechanical and Rheological Behaviors of Some Maleic Anhydride Functionalized Copolymer Layered Silicate Nanocomposites**  
KAVLAK S., UZGÖREN BARAN A., RZAYEV Z., GÜNER A.  
8th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 25 - 29 June 2012
- XXII. **Complex radical interlamellar terpolymerization of N isopropyl acrylamide maleic anhydride and 2 3 2H dihydropyran in the presence of organoclay**  
UZGÖREN BARAN A., RZAYEV Z.  
8th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 25 - 29 June 2012
- XXIII. **Binding mechanism of triazole derivatives with DNA Studies by spectral luminescent methods**  
Akbay N., Uzgören Baran A., Okay G., Gökoğlu E.  
6th Aegean Analytical Chemistry Days, Denizli, Turkey, 9 - 12 October 2008, pp.264
- XXIV. **Sialik Asit Depo Hastalığının Belirlenmesinde Nükleer Manyetik Rezonans Spektroskopisi**  
UZGÖREN BARAN A., AKBAY N., DURSUN A., COŞKUN T., İMAMOĞLU Y.  
Metabolizmanın Regülasyonu ve Metabolik Bozukluklar Lisansüstü Yaz Okulu, Trabzon, Turkey, 29 June - 06 July 2008
- XXV. **Synthesis and Characterization of Poly n isopropyl Acrylamide co 3 4 2h dihydropyran s Bioengineering Copolymers**  
UZGÖREN BARAN A., RZAYEV Z., OKAY G.  
1st European Chemistry Congress, Budapest, Hungary, 27 - 31 August 2006
- XXVI. **Synthesis and Theoretical Study of Dihydrokarbazole and Its Derivatives**  
UZGÖREN BARAN A., ERGÜN M. Y., TAŞKIN TOK T., SEVİN DÜZ F., OKAY G.  
International Symposium on Medicinal Chemistry Research and Development 2005 (MCRD2005), KUŞADASI, Turkey, 28 September - 01 October 2005
- XXVII. **Elektrofilik Asetilenlerle Enaminlerin Reaksiyonları**  
UZGÖREN BARAN A., ERGÜN M. Y., TUNOĞLU N., OKAY G.  
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004
- XXVIII. **Enaminlerin Asetilen Türevleriyle Reaksiyonları**  
UZGÖREN BARAN A., ERGÜN M. Y., TUNOĞLU N., OKAY G.  
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 10 - 13 September 2002

### **Supported Projects**

YÜKSEL D., Yılmaz E., UZGÖREN BARAN A., Project Supported by Higher Education Institutions, Yeni Açıl ve Aroil

Hidrazon Türevlerinin Sentezi ve Yapısal Analizi, 2018 - 2020

UZGÖREN BARAN A., Yılmaz E., Project Supported by Higher Education Institutions, Selektif COX2 İnhibitör Etki Göstermesi Beklenen Yeni Flurbiprofen Yapısına Sahip Triazol Türevlerinin Sentezleri ve Karakterizasyonu, 2018 - 2019

ALTUNTAŞ ÖZTAŞ N., UZGÖREN BARAN A., ÖZER D., Project Supported by Higher Education Institutions, Çözeltilerde Yanma Yöntemiyle Vanadyum Oksit Sentezi ve Tetrahidrokarbazolün Dehidrojenasyonunda Katalitik Aktifliğinin İncelenmesi, 2018 - 2019

UZGÖREN BARAN A., Project Supported by Higher Education Institutions, Kansere Alanında Yeni Gelişmeler, 2016 - 2016

UZGÖREN BARAN A., TÜBİTAK Project, Selektif COX 2 İnhibitor Etki Göstermesi Beklenen Yeni Flurbiprofen Yapısına Sahip Triazol Türevlerinin Moleküler Modelleme Çalışmaları ve Sentezleri, 2015 - 2016

## Metrics

Publication: 50

Citation (WoS): 183

Citation (Scopus): 205

H-Index (WoS): 6

H-Index (Scopus): 6

## Scholarships

Arastirma Bursu, University, 2019 - Continues

## Awards

Büber E., Ceyhan D., Uzgören Baran A., Sarıgöl D., ISIF'19 Patent ödülü, Isif'19, September 2019

## Non Academic Experience

Brown Üniversitesi

Brown Üniversitesi